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Amitabha Mukerjee
May 1991 **SMA '91:** Proceedings of the first ACM symposium on Solid modeling foundations and CAD/CAM applications
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2 The Benefits of Load Sharing when Dimensioning Networks
Susan Lincke-Salecker
April 2004 **ANSS '04:** Proceedings of the 37th annual symposium on Simulation
Publisher: IEEE Computer Society
Full text available: pdf(147.90 KB) Additional Information: full citation, abstract, index terms

With third and fourth generation (4G) wirelesstechnology, operators may manage multiple wirelessnetworks, including cellular networks of differentgenerations, frequencies and cell sizes; potentiallymultiple wireless LAN networks operating at differentdata ...

3 Optimized query planning of continuous aggregation queries in dynamic data dissemination networks
Rajeev Gupta, Krithi Ramamritham
May 2007 **WWW '07:** Proceedings of the 16th international conference on World Wide Web
Publisher: ACM
Full text available: pdf(331.41 KB) Additional Information: full citation, abstract, references, index terms

Continuous queries are used to monitor changes to time varying data and to provide results useful for online decision making. Typically a user desires to obtain the value of some aggregation function over distributed data items, for example, to know ...

Keywords: content distribution networks, continuous aggregation queries, data coherency, dynamic data, query dissemination cost

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4 SYN-MAC: a distributed medium access control protocol for synchronized wireless networks
Hongyi Wu, Anant Utgikar, Nian-Feng Tzeng
October 2005 **Mobile Networks and Applications**, Volume 10 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, index terms

In this paper, we propose a novel medium access control (MAC) protocol, called SYN-MAC (for SYNchronized MAC), based on a binary countdown approach tailored for wireless networks. SYN-MAC has several attractive features such as simplicity, robustness, ...

Keywords: IEEE 802.11, SYN-MAC, binary countdown, fairness, medium access control (MAC)

5 Blocking analysis of dynamic traffic grooming in mesh WDM optical networks
Chunsheng Xin
June 2007 **IEEE/ACM Transactions on Networking (TON)**, Volume 15 Issue 3
Publisher: IEEE Press
Full text available: pdf(788.36 KB) Additional Information: full citation, abstract, references, index terms

Traffic grooming in wavelength division multiplexing (WDM) optical networks routes and consolidates sub-wavelength connections onto lightpaths, to improve network utilization and reduce cost. It can be classified into static or dynamic, depending on ...

Keywords: optical network, performance analysis, reduced load approximation, traffic grooming

6 Capacity enhancement of a multi-beam technique in a WCDMA network using multiple path connections
Dahmmaet Bunnjaweht, Mark A. Wickert
October 2006 **Mobility '06:** Proceedings of the 3rd international conference on Mobile technology, applications & systems
Publisher: ACM
Full text available: pdf(139.07 KB) Additional Information: full citation, abstract, references

Next generation wireless systems are designed for multimedia communication, with a wide range of data types and rates all sharing the same wireless infrastructure. In order to provide services with high capacity and desired quality of service, the system ...

7 Algorithm 863: L2WPMA, a Fortran 77 package for weighted least-squares piecewise monotonic data approximation
Ioannis C. Demetriou
March 2007 **ACM Transactions on Mathematical Software (TOMS)**, Volume 33 Issue 1
Publisher: ACM

Full text available: pdf(363.31 KB) Additional Information: full citation, abstract, references, index terms

Fortran software is developed that calculates a best piecewise monotonic approximation to *n* univariate data contaminated by random errors. The underlying method minimizes the weighted sum of the squares of the errors by requiring $k -$...

Keywords: Approximation, Lagrange multipliers, data smoothing, divided difference, dynamic programming, fitting, histogram, image processing, isotonic regression, peak finding, piecewise monotonic, pound/dollar exchange rate, signal processing, spline, turning point

8 Microarchitectural exploration with Liberty

Manish Vachharajani, Neil Vachharajani, David A. Penry, Jason A. Blome, David I. August

November 2002 **MICRO 35:** Proceedings of the 35th annual ACM/IEEE international symposium on Microarchitecture

Publisher: IEEE Computer Society Press

Full text available: pdf(1.21 MB) Publisher Site Additional Information: full citation, abstract, references, cited by, index terms

To find the best designs, architects must rapidly simulate many design alternatives and have confidence in the results. Unfortunately, the most prevalent simulator construction methodology, hand-writing monolithic simulators in sequential programming ...

9 Selected AI-Related Dissertations

Susanne M. Humphrey, Bob Krovetz

June 1990 **ACM SIGART Bulletin**, Volume 1 Issue 2

Publisher: ACM

Full text available: pdf(976.94 KB) Additional Information: full citation, abstract, references

The following are citations selected by title and abstract as being related to AI, resulting from a computer search, using DIALOG Information Services, of the Dissertation Abstracts Online database produced by University Microfilms International (UMI). ...

10 Qualitative representation of spatial knowledge in two-dimensional space

Dimitris Papadias, Timos Sellis

October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(2.09 MB) Additional Information: full citation, abstract, references, cited by

Various relation-based systems, concerned with the qualitative representation and processing of spatial knowledge, have been developed in numerous application domains. In this article, we identify the common concepts underlying qualitative spatial knowledge ...

Keywords: qualitative spatial information processing, representation of direction and topological relations, spatial data models, spatial query languages

11 Binary string relations: a foundation for spatiotemporal knowledge representation

Delis Vasilis, Hadzilacos Thanasis
November 1999 **CIKM '99:** Proceedings of the eighth international conference on Information and knowledge management
Publisher: ACM

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, cited by, index terms

The paper is concerned with the qualitative representation of spatiotemporal relations. We initially propose a multiresolution framework for the representation of relations among 1D intervals, based on a binary string encoding. We subsequently extend ...

Keywords: conceptual neighbourhoods, spatiotemporal reasoning, spatiotemporal relations

12 Hierarchical reasoning about direction relations

Dimitris Papadias, Max J. Egenhofer, Jayant Sharma
November 1996 **GIS '96:** Proceedings of the 4th ACM international workshop on Advances in geographic information systems
Publisher: ACM

Full text available: pdf(788.51 KB) Additional Information: full citation, references, cited by, index terms

13 A general method for spatial reasoning in spatial databases

Alia I. Abdelmoty, Baher A. El-Geresy
December 1995 **CIKM '95:** Proceedings of the fourth international conference on Information and knowledge management
Publisher: ACM

Full text available: pdf(593.78 KB) Additional Information: full citation, references, cited by, index terms

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1 MPEG: a video compression standard for multimedia applications



Didier Le Gall
April 1991 **Communications of the ACM**, Volume 34 Issue 4
Publisher: ACM

Full text available: pdf(9.16 MB) Additional Information: full citation, references, cited by, index terms, review

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